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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/971,949	10/05/2001	Joseph H. End III	TN205 4081		
7590 09/13/2004			EXAMINER		
Mark T. Starr			NGO, CHUONG D		
Unisys Corpora Unisys Way, M		ART UNIT	PAPER NUMBER		
Blue Bell, PA 19424			2124		
			DATE MAILED: 09/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
Office Action Summary		09/971,94	9	END, JOSEPH H.				
		Examiner		Art Unit				
		Chuong D	_ <del>_</del>	2124				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on <u>05 October 2001</u> .							
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)	4) Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.							
	Claim(s) <u>1-14</u> is/are rejected.							
-	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	ion Papers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachmen	at(s)							
1) Notic	ce of References Cited (PTO-892)		4) Interview Summary					
3) X Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date <u>10/05/01</u> .	08)	Paper No(s)/Mail Do  Notice of Informal F  Other:		O-152)			

## **DETAILED ACTION**

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 12-14 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 12-14 merely recite a method for performing an arithmetic division operation to compute a remainder from a dividend and the divisor according to a mathematical algorithm.

The claims fail to recited any step that requires a specific device to implement the method, and thus are directed to non statutory subject matter.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Tate et al. (3,733,477).

Tate et al. discloses in figure 1 a circuit for calculating and outputting a modulo value (the final partial remainder) including a plurality of subtraction circuits (24,26,28) for

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subtracting a common dividend signal (22) from test values signals (50,52,54,56,58,60,62) each representing a respective integer multiple of the divisor to produce remainder signals (66,68,70), a logic (158,160,162, see figure 3) for determining which of the remainder signals represents a true remainder, and a multiplexer (150,152,154,156, figure 3) for outputting the true remainder as claimed.

As per claims 8 and 13, the recitation that the dividend has a value ranging form 0 to 65535, and the devisor comprise a fixed value of 9973 is merely an intended field of used, the circuit of Tate et al is clearly capable of operating on these values.

As per claims 10 and 11, the subtract circuits as in figure 1 clearly receiving the test value signals before or substantially simultaneously with the dividend signal as the test value signals passing through two registers and a logic gate while the dividend passing through three registers

5. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yoshida (5,638,314).

Yoshida discloses in figure 1 a circuit for calculating and outputting a modulo value (the final partial remainder) including a plurality of subtraction circuits (3) for subtracting a common dividend signal from test values signals (outputs from 4) each representing a respective integer multiple of the divisor to produce remainder signals, a logic (8) for determining which of the remainder signals represents a true remainder, and a multiplexer (7) for outputting the true remainder as claimed.

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As per claims 8,10,11 and 13, the recitation that the dividend has a value ranging form 0 to 65535, and the divisor comprise a fixed value of 9973 is merely an intended field of used, the circuit of Yoshida is clearly capable of operating on these values. In addition, as the circuit is set with a constants divisor, the subtract circuits 1 clearly receiving the test value signals before or substantially simultaneously with the dividend signal.

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo Primary Examiner Art Unit 2124

09/005/2004